

[ELECTRIC MACHINE WITH COOLING RINGS]

Abstract of Disclosure

An electric machine in accordance with the invention includes a stator core having first and second ends and having windings therein with end turns of the windings protruding from the first and second ends of the stator core. A rotor is rotatably positioned within the stator core. A thermal conductor, such as non-laminated aluminum or aluminum alloy ring, is disposed between each stator core end-turn and the housing for conducting heat from the stator core end-turns to the housing, and the cavity between each end-turn and the thermal conductor is filled with a flexible potting material to minimize gap formation caused, for example, by thermal cycling of the engine components.

09683018.10001